

## Subject Index

### Volume 56

13-cis-retinoic acid, ellagic acid, esophagus, rat, chemoprevention, 117

3-amino-1-methyl-5H-pyrido-[4,3-b]indole, tryptophan pyrolysate, enzyme immunoassay, 207

2-acetyl-aminofluorene, ras activation, 3'-methyl-4'-dimethylamino-azobenzene, hepatocellular carcinoma, 17

*N*<sup>1</sup>-acetylspermidine, hepatomas, liver preneoplastic nodules, polyamines, spermidine *N*<sup>1</sup>-acetyltransferase, 159

Aflatoxin B<sub>1</sub>, crocetin, cytotoxicity, glutathione, glutathione S-transferase, glutathione peroxidase, aflatoxin B<sub>1</sub>-DNA adduct, 1

Aflatoxin B<sub>1</sub>-DNA adduct, crocetin, aflatoxin B<sub>1</sub>, cytotoxicity, glutathione, glutathione S-transferase, glutathione peroxidase, 1

Alkylating agents - pharmacology, drug resistance, biochemical modulation of cancer chemotherapy, gossypol - pharmacology, 85

2-aminofluorene, *N*,*O*-glucuronyl-2-acetylaminofluorene, *N*-glucuronosyl-*N*-hydroxy-2-aminofluorene, bladder tumor, 153

Aneuploidy, preneoplastic liver, promotion, progression, cytospectrophotometry, nuclear DNA content, 131

Anti-oxidants, *cis*-unsaturated fatty acids, tumoricidal, free radicals, lipid peroxidation, superoxide anion, 235

Antileukemic, marine product, antiretrovirals, 197

Antiproliferative effects, squamous cell carcinoma, flavonoid, quercetin, nobiletin, tangeretin, 147

Antiretrovirals, antileukemic, marine product, 197

Antitumor activity, *Streptococcus thermophilus*, fibrosarcoma, lactic acid bacteria, T-cells, 37

Ascorbic acid, uterine sarcoma, two-stage carcinogenesis, 29

5-azacytidine, *S*-adenosyl-L-methionine, DNA methylation, enzyme altered foci, rat liver, 259

BCG vaccine, mouse tumor models, immunotherapy, sarcoma, 137

Biliary glycoprotein, carcinoembryonic antigen, granulocytes, colonic carcinoma cells, monoclonal antibody, 173

Biochemical modulation of cancer chemotherapy, drug resistance, alkylating agents - pharmacology, gossypol - pharmacology, 85

Bladder tumor, 2-aminofluorene, *N*,*O*-glucuronyl-2-acetylaminofluorene, *N*-glucuronosyl-*N*-hydroxy-2-aminofluorene, 153

Caffeine, mammary tumors, GR mice, 245

Calcium, colon, lectin, soybean agglutinin, 65

Cancer, dietary fat, metastasis, mammary tumor, 165

Carcinoembryonic antigen, biliary glycoprotein, granulocytes, colonic carcinoma cells, monoclonal antibody, 173

Carcinogenesis, citral, tumor-promotion, vitamin A, retinoic acid, 25

Carcinogenesis, nitrosomethylurea, mammary, rat, 77

Cell proliferation, neuroblastoma, *N*-myc, histone H3, 45

Cervical carcinogenesis, chemoprevention, mace methylcholanthrene, 231

Chemoprevention, ellagic acid, 13-cis-retinoic acid, esophagus, rat, 117

Chemoprevention, mace methylcholanthrene, cervical carcinogenesis, 231

Chemoprevention, skin papillomagenesis in mice, DMBA, mace, 59

Chloroaluminum phthalocyanine tetrasulfonate, photodynamic therapy, lipid peroxidation, singlet oxygen, 125

*cis*-unsaturated fatty acids, tumoricidal, free radicals, lipid peroxidation, superoxide anion, anti-oxidants, 235

Citral, tumor-promotion, vitamin A, retinoic acid, carcinogenesis, 25

Colon, calcium, lectin, soybean agglutinin, 65

Colonic carcinoma cells, biliary glycoprotein, carcinoembryonic antigen, granulocytes, monoclonal antibody, 173

Colon adenocarcinoma, *N*-nitro-bis(2-oxypropyl)amine, European hamster, pathology, 53

Crocetin, aflatoxin B<sub>1</sub>, cytotoxicity, glutathione, glutathione S-transferase, glutathione peroxidase, aflatoxin B<sub>1</sub>-DNA adduct, 1

Cyclosporine, renal tumors, streptozotocin diabetes, rats, 109

Cytokine, T cell growth factor, 71

Cytospectrophotometry, aneuploidy, preneoplastic liver, promotion, progression, nuclear DNA content, 131

Cytotoxicity, crocetin, aflatoxin B<sub>1</sub>, glutathione, glutathione S-transferase, glutathione peroxidase, aflatoxin B<sub>1</sub>-DNA adduct, 1

Dietary fat, cancer, metastasis, mammary tumor, 165  
 DMBA, skin papillomagenesis in mice, chemoprevention, mace, 59  
 DNA amplification, protease inhibitors, ultraviolet radiation, X-rays, 103  
 DNA methylation, S-adenosyl-L-methionine, 5-azacytidine, enzyme altered foci, rat liver, 259  
 Doxorubicin, HIV-1, 181  
 Drug resistance, biochemical modulation of cancer chemotherapy, alkylating agents - pharmacology, gossypol - pharmacology, 85  
 DT diaphorase, Syrian hamster cells, malignant cells, tumor marker, 189  
 Ellagic acid, 13-cis-retinoic acid, esophagus, rat, chemoprevention, 117  
 Enzyme altered foci, S-adenosyl-L-methionine, 5-azacytidine, DNA methylation, rat liver, 259  
 Enzyme immunoassay, 3-amino-1-methyl-5H-pyrido-[4,3-b]indole, tryptophan pyrolysate, 207  
 Esophagus, ellagic acid, 13-cis-retinoic acid, rat, chemoprevention, 117  
 Ethyl methanesulphonate, prostaglandin  $F_{2\alpha}$ , rat mammary carcinoma, 225  
 European hamster, N-nitro-bis(2-oxypropyl)amine, colon adenocarcinoma, pathology, 53  
 Fecapentaene-12 diacetate, tumor initiation study,  $\alpha$ -tocopherol, 11  
 Fibrosarcoma, antitumor activity, *Streptococcus thermophilus*, lactic acid bacteria, T-cells, 37  
 Flavonoid, antiproliferative effects, squamous cell carcinoma, quercetin, nobiletin, tangeretin, 147  
 Free radicals, cis-unsaturated fatty acids, tumoricidal, lipid peroxidation, superoxide anion, anti-oxidants, 235  
 Ganglioside, vitamin A, tumor, 251  
 Gastrointestinal tract nuclear anomalies, polycyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbon mixtures, 215  
 N-glucuronosyl-N-hydroxy-2-aminofluorene, 2-amino- fluorene, N,O-glucuronosyl-2-acetylaminofluorene, bladder tumor, 153  
 N,O-glucuronosyl-2-acetylaminofluorene, 2-aminofluorene, N-glucuronosyl-N-hydroxy-2-aminofluorene, bladder tumor, 153  
 Glutathione, crocetin, aflatoxin B<sub>1</sub>, cytotoxicity, glutathione S-transferase, glutathione peroxidase, aflatoxin B<sub>1</sub>-DNA adduct, 1  
 Glutathione peroxidase, crocetin, aflatoxin B<sub>1</sub>, cytotoxicity, glutathione, glutathione S-transferase, aflatoxin B<sub>1</sub>-DNA adduct, 1  
 Glutathione S-transferase, crocetin, aflatoxin B<sub>1</sub>, cytotoxicity, glutathione, glutathione peroxidase, aflatoxin B<sub>1</sub>-DNA adduct, 1  
 Gossypol - pharmacology, drug resistance, biochemical modulation of cancer chemotherapy, alkylating agents - pharmacology, 85  
 GR mice, caffeine, mammary tumors 245  
 Granulocytes, biliary glycoprotein, carcinoembryonic antigen, colonic carcinoma cells, monoclonal antibody, 173  
 Hepatocellular carcinoma, ras activation, 2-acetyl-aminofluorene, 3'-methyl-4'-dimethylamino-azobenzene, 17  
 Hepatomas, liver preneoplastic nodules, N<sup>1</sup>-acetylspermidine, polyamines, spermidine N<sup>1</sup>-acetyltransferase, 159  
 Histone H3, neuroblastoma, N-myc, cell proliferation, 45  
 HIV-1, doxorubicin, 181  
 Human renal carcinoma, targeted liposomes, monoclonal antibody, methotrexate, 97  
 Immunotherapy, BCG vaccine, mouse tumor models, sarcoma, 137  
 Lactic acid bacteria, antitumor activity, *Streptococcus thermophilus*, fibrosarcoma, T-cells, 37  
 Lectin, colon, calcium, soybean agglutinin, 65  
 Lipid peroxidation, cis-unsaturated fatty acids, tumoricidal, free radicals, superoxide anion, anti-oxidants, 235  
 Lipid peroxidation, photodynamic therapy, chloroaluminum phthalocyanine tetrasulfonate, singlet oxygen, 125  
 Liver preneoplastic nodules, hepatomas, N<sup>1</sup>-acetylspermidine, polyamines, spermidine N<sup>1</sup>-acetyltransferase, 159  
 Mace, skin papillomagenesis in mice, DMBA, chemoprevention, 59  
 Mace methylcholanthrene, chemoprevention, cervical carcinogenesis, 231  
 Malignant cells, DT diaphorase, Syrian hamster cells, tumor marker, 189  
 Mammary, nitrosomethylurea, carcinogenesis, rat, 77  
 Mammary tumor, dietary fat, cancer, metastasis, 165  
 Mammary tumors, caffeine, GR mice, 245  
 Marine product, antileukemic, antiretrovirals, 197  
 Metastasis, dietary fat, cancer, mammary tumor, 165  
 Methotrexate, targeted liposomes, monoclonal antibody, human renal carcinoma, 97  
 3'-methyl-4'-dimethylamino-azobenzene, ras activation, 2-acetyl-aminofluorene, hepatocellular carcinoma, 17  
 Monoclonal antibody, biliary glycoprotein, carcinoembryonic antigen, granulocytes, colonic carcinoma cells, 173  
 Monoclonal antibody, targeted liposomes, human renal carcinoma, methotrexate, 97  
 Mouse tumor models, BCG vaccine, immunotherapy, sarcoma, 137

N-myc, neuroblastoma, histone H3, cell proliferation, 45

N-nitro-bis(2-oxypropyl)amine, European hamster, colon adenocarcinoma, pathology, 53

Neuroblastoma, N-myc, histone H3, cell proliferation, 45

Nitrosomethylurea, carcinogenesis, mammary, rat, 77

Nobiletin, antiproliferative effects, squamous cell carcinoma, flavonoid, quercetin, tangeretin, 147

Nuclear DNA content, aneuploidy, preneoplastic liver, promotion, progression, cytospectrophotometry, 131

Pathology, N-nitro-bis(2-oxypropyl)amine, European hamster, colon adenocarcinoma, 53

Photodynamic therapy, chloroaluminum phthalocyanine tetrasulfonate, lipid peroxidation, singlet oxygen, 125

Polyamines, hepatomas, liver preneoplastic nodules, N<sup>1</sup>-acetylspermidine, spermidine N<sup>1</sup>-acetyltransferase, 159

Polycyclic aromatic hydrocarbons, gastrointestinal tract nuclear anomalies, polycyclic aromatic hydrocarbon mixtures, 215

Polycyclic aromatic hydrocarbon mixtures, polycyclic aromatic hydrocarbons, gastrointestinal tract nuclear anomalies, 215

Preneoplastic liver, aneuploidy, promotion, progression, cytospectrophotometry, nuclear DNA content, 131

Progression, aneuploidy, preneoplastic liver, promotion, cytospectrophotometry, nuclear DNA content, 131

Promotion, aneuploidy, preneoplastic liver, progression, cytospectrophotometry, nuclear DNA content, 131

Prostaglandin F<sub>2</sub>α, rat mammary carcinoma, ethyl methanesulphonate, 225

Protease inhibitors, DNA amplification, ultraviolet radiation, X-rays, 103

Quercetin, antiproliferative effects, squamous cell carcinoma, flavonoid, nobiletin, tangeretin, 147

ras activation, 2-acetyl-aminofluorene, 3'-methyl-4'-dimethylamino-azobenzene, hepatocellular carcinoma, 17

Rat, ellagic acid, 13-cis-retinoic acid, esophagus, chemoprevention, 117

Rat, nitrosomethylurea, carcinogenesis, mammary, 77

Rats, cyclosporine, renal tumors, streptozotocin diabetes, 109

Rat liver, S-adenosyl-L-methionine, 5-azacytidine, DNA methylation, enzyme altered foci, 259

Rat mammary carcinoma, prostaglandin F<sub>2</sub>α, ethyl methanesulphonate, 225

Renal tumors, cyclosporine, streptozotocin diabetes, rats, 109

Retinoic acid, citral, tumor-promotion, vitamin A, carcinogenesis, 25

S-adenosyl-L-methionine, 5-azacytidine, DNA methylation, enzyme altered foci, rat liver, 259

Sarcoma, BCG vaccine, mouse tumor models, immunotherapy, 137

Singlet oxygen, photodynamic therapy, chloroaluminum phthalocyanine tetrasulfonate, lipid peroxidation, 125

Skin papillomagenesis in mice, DMBA, chemoprevention, mace, 59

Soybean agglutinin, colon, calcium, lectin, 65

Spermidine N<sup>1</sup>-acetyltransferase, hepatomas, liver preneoplastic nodules, N<sup>1</sup>-acetylspermidine, polyamines, 159

Squamous cell carcinoma, antiproliferative effects, flavonoid, quercetin, nobiletin, tangeretin, 147

Streptococcus thermophilus, antitumor activity, fibrosarcoma, lactic acid bacteria, T-cells, 37

Streptozotocin diabetes, cyclosporine, renal tumors, rats, 109

Superoxide anion, cis-unsaturated fatty acids, tumoricidal, free radicals, lipid peroxidation, anti-oxidants, 235

Syrian hamster cells, DT diaphorase, malignant cells, tumor marker, 189

T-cells, antitumor activity, Streptococcus thermophilus, fibrosarcoma, lactic acid bacteria, 37

Tangeretin, antiproliferative effects, squamous cell carcinoma, flavonoid, quercetin, nobiletin, 147

Targeted liposomes, monoclonal antibody, human renal carcinoma, methotrexate, 97

α-tocopherol, fecapentaene-12 diacetate, tumor initiation study, 11

Tryptophan pyrolysate, 3-amino-1-methyl-5H-pyrido-[4,3-b]indole, enzyme immunoassay, 207

Tumor, ganglioside, vitamin A, 251

Tumor-promotion, citral, vitamin A, retinoic acid, carcinogenesis, 25

Tumoricidal, cis-unsaturated fatty acids, free radicals, lipid peroxidation, superoxide anion, anti-oxidants, 235

Tumor initiation study, fecapentaene-12 diacetate, α-tocopherol, 11

Tumor marker, DT diaphorase, Syrian hamster cells, malignant cells, 189

Two-stage carcinogenesis, uterine sarcoma, ascorbic acid, 29

T cell growth factor, cytokine, 71

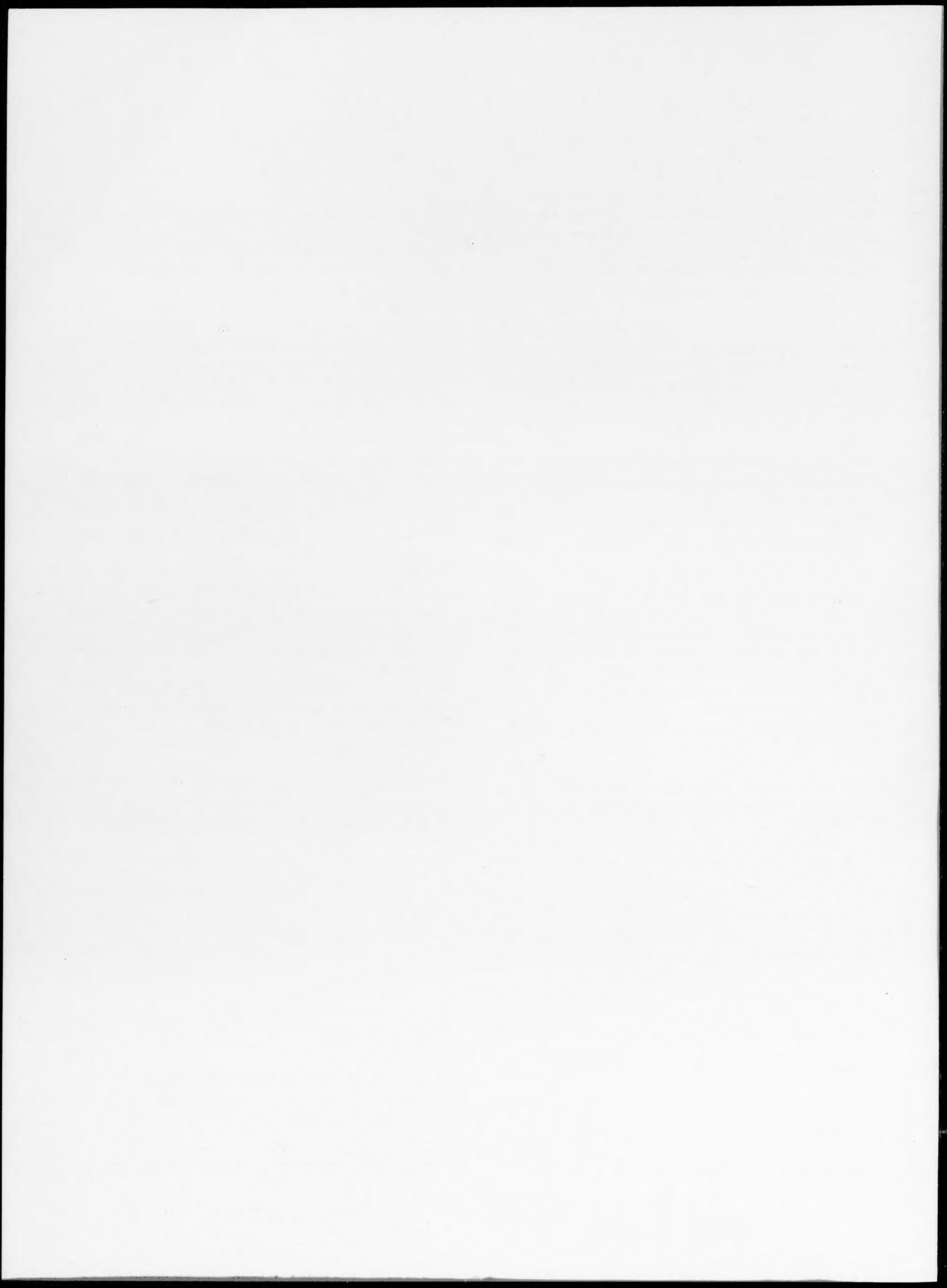
Ultraviolet radiation, DNA amplification, protease inhibitors, X-rays, 103

Uterine sarcoma, two-stage carcinogenesis, ascorbic acid, 29

Vitamin A, citral, tumor-promotion, retinoic acid, carcinogenesis, 25

Vitamin A, ganglioside, tumor, 251

X-rays, DNA amplification, protease inhibitors, ultraviolet radiation, 103



## Author Index

### Volume 55

---

Abolhassani, M.	71	Halka, K.	109
Agarwal, R.	125	Han, M.C.	77
Akiyoshi, T.	225	Haubeck, H.-D.	173
Anderson, C.H.	77	Hei, T.K.	131
Athar, M.	125	Henneman, J.R.	11
Beattie, C.W.	77	Hiroshi, I.	225
Belitsky, P.	97	Hong, L.	17
Benz, C.C.	85	Hubbard, N.E.	165
Bickers, D.R.	125	Hussain, R.A.	77
		Hussain, S.P.	59, 231
Castello, M.A.	45	Imaida, K.	153
Chiao, J.W.	71	Inoue, H.	225
Chou, S.C.	197		
Cohen, L.	65	Jannu, L.N.	59
Connor, M.J.	25	Jyothirmayi, G.N.	109
Daino, L.	259	Kaklij, G.S.	37
Daniel, E.M.	117	Kamino, K.	53
Daniel, F.B.	215	Kandaswami, C.	147
Das, U.N.	235	Keefer, L.K.	11
Devor, D.E.	11	Kelkar, S.M.	37
Dominici, G.	45	Kennedy, A.R.	103
Drezewiecki, G.	147	Kerr, D.J.	181
Drzeniek, Z.	173	Khan, M.Y.	109
Erickson, K.L.	165	Kitagawa, T.	17
Ernst, H.	53	Klegerman, M.E.	137
		Kohler, M.	53
Fenger, U.	173	Lai, P.	259
Feo, F.	259	Lamerz, R.	173
Ferrari, S.	45	Lee, G.-H.	17
Flick, M.B.	103	Lee, M.-S.	153
Ford, J.M.	85	Lin, J.-K.	1
Furusawa, S.	197	Lipkin, M.	65
Furusawa, E.	197	Liu, J.	17
		Logsdon, D.L.	11
Germann, P.-G.	53		
Ghose, T.	97	Matlin, S.A.	85
Ghosh, A.	251	Matsuoka, H.	225
Guibilei, C.	45	Mezei, M.	97
Hait, W.N.	85	Middleton, Jr., E.	147
		Miyairi, S.	207

Mohr, U.	53	Singh, M.	97
Mukhtar, H.	125	Soloniuk, D.S.	147
		Spandidos, D.A.	181
Nambara, T.	207	Stober, J.A.	215
Negroni, A.	45	Stoner, G.D.	117
Nomura, K.	17	Streeter, A.J.	11
		Sudilovsky, O.	131
Ohtake, K.	17		
Olson, G.R.	215	Takaki, R.	225
		Trukhanova, L.S.	29
Parfenov, Yu.D.	29	Tsuda, H.	189
Pascale, R.	259	Turusov, V.S.	29
Perin, A.	159		
Perkins, E.	147	Ueo, H.	225
		Ujjainwala, L.	137
Rao, A.R.	59, 231	Urban S.A.	125
Raschellà, G.	45		
Reddi, A.S.	109	VanderPloeg, L.C.	245
Reddy, T.V.	215	Vannini, M.G.	259
Rice, J.M.	11		
Romeo, A.	45	Wagener, C.	173
Ruggiu, M.E.	259	Wang, C.-J.	1
		Wang, C.Y.	153
Saha, S.	251	Ward, J.M.	11
Sainis, K.B.	37	Welsch, C.W.	245
Satta, G.	259		
Seddaiu, M.A.	259	Yang, K.	65
Sequenza, M.J.	259		
Sessa, A.	159	Zeunert, P.	137
Shenoy, M.A.	37	Zoumpourlis, V.	181
Shiah, H.-S.	1		
Simile, M.M.	259	Zukowski, K.	153

